

**Rio Linda /Elverta Community Water District
2005 Urban Water Management Plan**

Customer Water Use

Water demand projections were obtained from the RLECWD “Water Master Plan”, 2000 by CDM, “Rio Linda/Elverta Community Water District Master Plan - 2003 Revision” by CDM and the “Preliminary Supply ESPA Master Plan”, 2005, by MWH. These plans calculated the water demand by multiplying acres of land use by unit water demand factors. The unit water demand factors were presented in the “Estimate of Annual Water Demand within the Sacramento Countywide Area,” 1995 by Boyle Engineering and are presented in Table 10.

Table 10 - Unit Water Demand Factors for RLECWD

Land Use	Demand Factor (AF/acre)
Rural Estates (Ag-Res 1-10)	1.44
Single Family Low Density (RD 1,2-7)	3.08
Single Family High Density (RD 10)	4.05
Multi Family High Density (RD 20)	4.49
Commercial and Office	3.60
Public Recreation	3.82
Public/Quasi-Public	3.82
Right of Way	0.22
Vacant/Undeveloped	0.00
Agriculture	2.41
Mixed Land Uses	2.50

Source: RLECWD Water Supply Master Plan (CDM, 2000) based on *the Estimate of Annual Water Demand within the Sacramento Countywide Area* (Boyle Engineering, 1995)

Sources of acres of land use were the Rio Linda Elverta Area Community Plan adopted in 1998 and an updated land use plan for the Elverta Specific Plan Area developed by MacKay and Somps, June 2005.

The 2003 Master Plan Update and the 2005 Preliminary Supply ESPA Master Plan both note that development and population growth were slower than had be projected earlier. The demand estimates shown in Table 11 reflect the revised growth projections.

**Rio Linda /Elverta Community Water District
2005 Urban Water Management Plan**

Table 11 - Projected Water Demand for RLECWD in Acre Feet

	2000	2005	2010	2015	2020	2025	2030
Urban w/o Elverta SP (1)			3,500	5,700	7,900	12,600	17,300
Actual Production Urban w/o Elverta SP (2)	3,350	3,400					
Elverta SP Phase 1 (3)			1,140	1,140	1,140	1,140	1,140
Non-Franchised Area Phase 1 (3)			50	50	50	50	50
Elverta SP Phase 2 (3)				1,230	2,460	2,460	2,460
Non-Franchised Area Phase 2 (3)				100	100	100	100
Large Industry - Estimate			500	1,000	1,000	1,000	1,000
RLECWD Customer Subtotal	3,350	3,400	5,190	9,220	12,650	17,350	22,050
System Non-Revenue Water at 9%	included	included	470	830	1,140	1,560	1,980
Cherry Island Golf Course & groundwater recharge	0	0	1,500	1,500	1,500	1,500	1,500
RLECWD Deliveries Subtotal	3,350	3,400	7,160	11,550	15,290	20,410	25,530
Private wells (1)	3,000	3,000	3,000	3,000	3,000	2,650	2,300
Total Demand in RLECWD Service Area	6,350	6,400	10,160	14,550	18,290	23,060	27,830

Sources: 1) 2000 Master Plan CDM; 2) RLECWD Production Records
3) MWH 2005 Preliminary Supply ESPA Master Plan; (4) Average Irrigation requirement for Cherry Island Golf Course is estimated to be 800 AFPY

No water sales to other agencies are anticipated. System “Non- Revenue Water” includes leaks and other non measured uses formerly included in the category “unaccounted for water.”

Water Code section 10631 specifies water use by user types as shown in Table 12. RLECWD meters all water accounts. Since there are no unmetered accounts, the unmetered account category is excluded from Table 12.

Review of demand projections associated with land use categories indicate the following percentages of total demand:

- Residential use is approximately 85 percent
- Commercial use/government/institutional use is approximately three or four percent
- Dedicated irrigation applications represent approximately three or four percent

**Rio Linda /Elverta Community Water District
2005 Urban Water Management Plan**

Table 12 Past, Current and Projected Water Demands by Customer Type

		Single family	Multi-family	Industrial	Commercial	Institutional/ government	Landscape	Agriculture	Total
2000	Number of Accounts	3847	13	2	110	28	7	0	4007
2000	Deliveries AFPY	2,636	50	32	159	139	11	0	3,027
2005	Number of Accounts	3994	13	2	113	37	9	0	4168
2005	Deliveries AFPY	2,575	44	20	129	134	16	0	2,919
2010	Deliveries AFPY	4,300		500	200		200	0	5,200
2015	Deliveries AFPY	7,700		1000	300		300	0	9,220
2020	Deliveries AFPY	10,800		1000	400		400	0	12,650
2025	Deliveries AFPY	15,100		1000	600		600	0	17,350
2030	Deliveries AFPY	19,400		1000	800		800	0	22,050